

# Notice of Allowability

Application No.

10/679,851

Examiner

Jesús D. Sotelo

Applicant(s)

KETTELSON, ERNEST

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 5/9/05.
2. ☒ The allowed claim(s) is/are 6-9, 11-16, 22-25, 28-30, 32-35, 41 and 42.
3. ☒ The drawings filed on 06 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Jesús D. Sotelo*  
JESUS D. SOTELO 5/14/05  
PRIMARY EXAMINER  
A. U. 3617

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

The claims have been amended as follows to provide the proper tags for each claim. Additionally, claims 12 and 13 have been amended to remove the double dependency on claim 11.

1. (canceled)

2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (original) A propeller mechanism comprising a first propeller having a first elongated shaft having a forward end and an opposite rearward end, a first elongated helical blade affixed to said first elongated shaft, said first elongated helical blade having a first end closest to said forward end of said first elongated shaft and an opposite second end closest to said rearward end of said first

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elongated shaft, said first elongated helical blade  
extending radially outwardly from said first elongated shaft  
to terminate outwardly in a first elongated outer blade  
edge, said first outer blade edge of said first elongated  
helical blade curving in a first direction of rotation  
around said first elongated shaft as said first elongated  
helical blade extends rearwardly from said first end thereof  
toward said second end thereof to curve in such direction of  
rotation less than one full rotation around said first  
elongated shaft to thereupon terminate at said opposite  
second end of said first elongated blade, a second propeller  
in side-by side relationship to said first propeller, said  
second propeller having a second elongated shaft having a  
forward end and an opposite rearward end, a second elongated  
helical blade affixed to said second elongated shaft, said  
second elongated helical blade having a first end closest to  
said forward end of said second elongated shaft and an  
opposite second end closest to said rearward end of said  
second elongated shaft, said  
second elongated helical blade  
extending radially outwardly from said second elongated  
shaft to terminate outwardly in a second elongated outer

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blade edge, said outer blade edge of said second elongated helical blade curving in a second direction of rotation around said second elongated shaft as said second elongated helical blade extends rearwardly from said first end thereof toward said second end thereof to curve in such direction of rotation less than one full rotation around said second elongated shaft to thereupon terminate at said opposite second end of said second elongated helical blade, said second direction of rotation of said second elongated outer blade edge of said second elongated helical blade around said second elongated shaft being opposite from said first direction rotation of said first elongated outer blade edge of said first elongated helical blade around said first elongated shaft.

7. (original) A propeller mechanism as set forth in claim 6, wherein said first and second elongated helical blades extend rearwardly from their respective first ends to their respective second ends a greater distance than said first and second elongated helical blades extend radially outwardly from their respective first and second elongated shafts to their respective first and second outer blade edges.

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8. (original) A propeller mechanism as set forth in claim 6, wherein said first and second propellers are mounted for rotation in side-by-side relationship and in opposite directions of rotation whereby each succeeding rearward portion of said first outer blade edge of said first elongated helical blade of said first propeller continually faces a corresponding portion of said second outer blade edge of said second elongated helical blade said second propeller as each propeller rotated in said opposite directions of rotation.

9. (original) A propeller mechanism as set forth claim 8, including drive means for rotating said first and second propellers in said opposite directions of rotation.

10. (canceled)

11. (original) A propeller mechanism as set forth in claim 7 combination with a boat having a hull, a first longitudinal portion of said hull being in contact with the water in a body of water when under way therein, said propeller mechanism being mounted for rotation on said boat adjacent said first longitudinal portion of said hull in contact with the said water in said body of water when under way therein, said boat including rotation means for rotation

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of said propellers of said propeller mechanism in opposite directions of rotation whereby each succeeding rearward portion of said first outer blade edge of said first elongated helical blade said first propeller continually faces a corresponding portion of said second outer blade edge of said second elongated helical blade said second propeller as each propeller is rotated in said opposite directions of rotation.

12. (Amended) A propeller mechanism and boat [as set forth in claim 11,] including a second propeller mechanism as set forth claim 11, said first longitudinal portion of said hull in contact with said water when under way having a port side and an opposite starboard side, said first mentioned propeller mechanism being mounted for rotation on said port side, said second propeller mechanism being mounted on said starboard side.

13. (Amended) A propeller mechanism and boat [as set forth in claim 11,] including a second propeller mechanism as set forth in claim 11, said second propeller mechanism being mounted for rotation on said boat along said first longitudinal portion of said hull in contact with said water and in front of said first mentioned propeller mechanism.

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14. (original) A propeller mechanism as set forth in claim 7, including an elongated tubular housing having a tubular cavity to receive said propeller mechanism therein, said propeller mechanism being received therein and mounted for rotation therein, said tubular housing having a water inlet opening front, a water discharge opening in back, said peripheral side wall closely adjacent each opposite side and the top of said propeller mechanism, said tubular housing having a longitudinal opening along bottom of said propeller mechanism for discharge of water therethrough when said propellers are rotated to draw water into said tubular housing through said longitudinal opening along the bottom and outwardly of said tubular housing through said water discharge opening at the back of said tubular housing.

15. (original) A propeller mechanism as set forth claim 14, including a door in said tubular housing positioned to open, partially close and fully close said longitudinal opening along the bottom thereof.

16. (original) A propeller mechanism as set forth in claim 7 in combination with a boat, said propeller mechanism being mounted for rotation forward of the bow of said boat and for operational contact with the water of a body of

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water in which said boat is under way to dissipate wave action in the area forward of the bow of said boat, including a support mechanism to support said propeller mechanism in said position forward of said bow of said boat, and a rotational drive mechanism to rotate said propellers in said propeller mechanism when so positioned.

17. (canceled)

18. (canceled)

19. (canceled)

20. (canceled)

21. (canceled)

22. (original) A propeller mechanism and water vessel as set forth in claim 6, including an elongated housing to receive said propeller mechanism, said housing having a bottom wall, a longitudinal opening along said bottom wall for propulsion of water downwardly through said longitudinal opening when said propellers are rotated, and spaced apart support means mounted below said longitudinal opening for preventing contact of said propellers with an object therebelow.

23. (original) A propeller mechanism and water vessel as set forth claim 22, wherein said spaced apart support means includes a first longitudinally extending support



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member and a second longitudinally extending support member spaced apart laterally from said first longitudinally extending support member for propulsion of water downwardly therebetween.

24. (original) A propeller mechanism and water vessel as set forth in claim 6, including an elongated housing to receive said propeller mechanism, said housing having a front wall, an intake opening in said front wall for propulsion of water inwardly through said intake opening when said propellers are rotated, and spaced apart contact prevention means mounted in front of said intake opening for preventing contact of said propellers with an object at said intake opening in said front wall.

25. (original) A propeller mechanism and water vessel as set forth claim 6, including an elongated housing to receive said propeller mechanism, said housing having a rear wall, a discharge opening in said rear wall for propulsion of water outwardly through said discharge opening when said propellers are rotated, and spaced apart contact prevention means mounted over said discharge opening for preventing contact of said propellers with an object at said discharge opening in said rear wall.

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26. (canceled)

27. (canceled)

28. (original) A propeller mechanism having a first propeller having a first longitudinal axis, a first elongated helical blade extending along said first longitudinal axis, said first elongated helical blade having a first end and an opposite second end, said first elongated helical blade extending radially outwardly from said first longitudinal axis to terminate outwardly in a first elongated outer blade edge, said first outer blade edge of said first elongated helical blade curving in a helical path in first direction of rotation around said first longitudinal axis as said first elongated helical blade extends rearwardly from said first end thereof toward said second end thereof to curve in such direction rotation less than one full rotation around said first longitudinal axis to thereupon terminate at said opposite second end of said first elongated helical blade, a second propeller side-by-side relationship to said first propeller, said second propeller having a second longitudinal axis, a second elongated helical blade extending along said second longitudinal axis, said second elongated helical blade

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having a first end and an opposite second end, said second elongated helical blade extending radially outwardly from said second longitudinal axis to terminate outwardly in a second elongated outer blade edge, said outer blade edge of said second elongated helical blade curving in a helical path a second direction of rotation around said second longitudinal axis as said second elongated helical blade extends rearwardly from said first end thereof toward said second end thereof to curve in such direction of rotation less than one full rotation around said second longitudinal axis to thereupon terminate at said opposite second end of said second elongated helical blade, said second direction of rotation of said second elongated outer blade edge of said second elongated helical blade around said second longitudinal axis being opposite from said first direction of rotation of said first elongated outer blade edge of said first elongated helical blade around said first longitudinal axis.

29. (original) A propeller mechanism as set forth in claim 28 wherein said first and second elongated helical blades extend rearwardly from their respective first ends to their respective second ends a greater distance than said

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first and second elongated helical blades extend radially outwardly from their respective first and second longitudinal axes to their respective first and second outer blade edges.

30. (original) A propeller mechanism as set forth in claim 28, wherein said first and second propellers are mounted for rotation in side-by-side relationship and in opposite directions of rotation whereby each succeeding rearward portion of said first outer blade edge of said first elongated helical blade of said first propeller continually faces a corresponding portion of said second outer blade edge of said second elongated helical blade of said second propeller as each propeller is rotated in said opposite directions of rotation.

31. (canceled)

32. (original) A propeller mechanism as set forth in claim 28, in combination with a boat having a hull, a first longitudinal portion of said hull being in contact with the water in a body of water when under way therein, said propeller mechanism being mounted for rotation on said boat adjacent said first longitudinal portion of said hull in contact with the said water in said body of water when under

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way therein, said boat including rotation means for rotation of said propellers of said propeller mechanism in opposite directions of rotation whereby each succeeding portion of said first outer blade edge of said first elongated helical blade of said first propeller continually faces a corresponding portion of said second outer blade edge of said second helical blade of said second propeller.

33. (original) An elongated helical blade propeller in combination with a boat having a hull, a housing extending longitudinally along the bottom of said hull, said elongated blade propeller being mounted for rotation in said housing, said housing having a bottom wall facing downwardly, a longitudinal opening in said bottom wall of said housing for flow of water downwardly there through when said propeller is rotated, and spaced apart support members secured below said longitudinal opening to protect said propeller from contact by an object that might otherwise interfere with rotation of said propeller.

34. (original) An elongated helical blade propeller in combination with a boat having a hull as set forth in claim 33, wherein said housing includes a forward end, an intake opening at said forward end, spaced apart protective members

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secured over said intake opening to protect said propeller in said housing from contact by an object that might otherwise interfere with rotation of said propeller.

35. (original) An elongated helical blade propeller in combination with a boat having a hull as set forth in claim 33, wherein said housing includes a rearward end, a discharge opening at said rearward end, spaced apart protective members secured over said discharge opening to protect said propeller in said housing from contact by an object that might otherwise interfere with rotation of said propeller.

36. (canceled)

37. (canceled)

38. (canceled)

39. (canceled)

40. (canceled)

41. (original) A propeller mechanism to lift and free a water vehicle from a grounded position on the bottom of a body of water, including an elongated housing having a through passageway positioned longitudinally along the bottom of said water vehicle, said housing having a downwardly facing bottom wall, a longitudinal opening along

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said downwardly facing bottom wall, a water propelling mechanism in said elongated housing to flow water into said housing and downwardly through said longitudinal opening when said water propelling mechanism is operated, including spaced apart support members mounted below said housing and said longitudinal opening to support said water propelling mechanism above and out of contact with the ground and other objects that could otherwise interfere with operation of said water propelling mechanism.

42. (original) A propulsion assembly and a water vessel having a longitudinal axis, a forward portion and a rearward portion, said propulsion assembly comprising a first forward propulsion mechanism having longitudinal axis mounted below said forward portion of said water vessel, said first forward propulsion mechanism being pivotable between a position wherein the said longitudinal axis of said first forward propulsion mechanism extends in the same direction as said longitudinal axis of said water vessel and a position wherein said longitudinal axis of said first forward propulsion mechanism extends at an obtuse angle toward one side of said longitudinal axis said water vessel, a second forward propulsion mechanism having a

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longitudinal axis mounted below said rearward portion of said water vessel, said second forward propulsion mechanism being pivotable between a position wherein the said longitudinal axis of said second forward propulsion mechanism extends in the same direction as said longitudinal axis of said water vessel and a position wherein said longitudinal axis of said second forward propulsion mechanism extends at an obtuse angle toward the opposite side of said longitudinal axis of said water vessel, to more rapidly turn said water vessel from one forward direction to another when said first and second forward propulsion mechanisms are positioned at said respective obtuse angles to said longitudinal axis of said water vessel.

43. (canceled)

44. (canceled)

45. (canceled)

2. Claims 6-9, 11-16, 22-25, 28-30, 32-35, 41 and 42 are allowed.




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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jesús D. Sotelo whose telephone number is 571-272-6686. The examiner can normally be reached on Mon. – Fri. 5:30 AM – 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Samuel J. Morano can be reached on 571-272-6684. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
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